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A FULL SCHEDULE of Upcoming Events:

CNG Fueling Station Grand Opening, July 16, 2014, Pembroke, NH

GSCCC stakeholder
Clean Energy Fuels is holding a grand opening of its
CNG fuel station in Pembroke, NH and you're
invited! To register, [click here](#).

Northeast Propane Show, August 6-7, 2014, Boxborough, MA

Be sure to visit the Clean
Cities table! For more information and to register, [click
here](#).

Free One-day Workshops: Natural Gas Vehicles - The Here and Now Technology

It's cheaper than gas and diesel!
It's domestic!
It's cleaner!

Don't miss this informative workshop. Learn why
everyone's talking about (and many are turning to)
natural gas as a transportation fuel.

- **October 2, 2014, Concord, NH** To register, click [here](#).
- **November 20, 2014, Lincoln RI** To register, click [here](#).



Alt Energy Summit, September 13-14, 2014, Mt. Washington Auto Road, Gorham, NH

Be part of NH's largest gathering of alternative energy vehicles - and take on the highest peak in the Northeast! For more information and to register, click [here](#).

NH Celebrates "National Drive Electric Week "(formerly National Plug-In Day). September 20, 2014, State House Plaza, Concord.

9:00 a.m.-12:30 p.m. GSCCC is again partnering with stakeholders ConVerdant Vehicles and Sierra Club to bring you this spectacular celebration of plug-in vehicles. Visit www.pluginamerica.org for more information on the national event.

Natural Gas Vehicles Conference and Expo, September 23-24, Tulsa, OK. 5% discount on registration

To take advantage of the discount, use code **GSCC** in the registration form. Before the discount, it's \$500 for individuals and \$150 for non-profit employees to attend. For more information and to register, click [here](#).

Biodiesel Mechanic Workshop, October 6, 2014, Concord, NH

8:00 a.m.- noon. Taught by a National Alternative Fuels Training Consortium (NAFTC) instructor, this free workshop provides an overview on the characteristics of biodiesel and care of storage and fueling infrastructure. A no-miss for your diesel mechanics! Contact Dolores Rebolledo (dolores.rebolledo@des.nh.gov) to register. Class is offered as part of a U.S. Department of Energy Clean Cities grant.

News of Interest:

GSCCC welcomes its newest stakeholder!

A big welcome to River Woods Retirement Community, Exeter, NH. For more information about River Woods, visit www.riverwoodsrc.org.

Request for Proposals for the Operation and Maintenance of NH's State CNG Fueling Station.

The objective of this RFP is to ensure reliable access to CNG for

state and municipal fleets and to expand use of the fuel by making the Stickney Avenue station available to private fleets and the

general public. **Bid submission deadline is extended to July 7th.**

[Click here for more information.](#)

Electric Vehicle Safety for Emergency Responders Online Course.

The National Alternative Fuels Training Consortium (NAFTC) is offering a limited number of firefighter scholarships to obtain FREE online Electric Drive Vehicle First Responder Safety Training. For more information **[click here.](#)**

***Green Your Fleet!* makes a Big Splash at Lakes Region CC!**

GSCCC's third *Green Your Fleet!* event took place on June 6th at Lakes Region Community College in Laconia. The day began at 6:45 a.m. with medium- and heavy- duty alternative fuel trucks, buses, vans and cars lined up on Route 106 waiting to be part of the vehicle exhibit (36 vehicles in all). The event kicked off at 9 a.m. with Tom Goulette, the college's Vice President of Academic Affairs, welcoming the over 140 attendees. NH Senator Andrew Hosmer provided opening remarks and the keynote address was given by Tim Myhaver of Ryder, Inc. Fleet managers from local "green" fleets were presenters and panelists, providing accounts of their experiences with cleaner fuels and practices. Attendees met with sponsors at exhibit tables, perused the vehicle exhibit during lunch and spent the afternoon in one of the many information sessions offered.



Pepsi's hybrid-electric and Pugliese's propane trucks headline in this lineup.



Mark Sousa, GSCC Advisory Board Member, was "Master Coordinator" of the vehicle exhibit.

FUNDING OPPORTUNITIES:

DES Diesel Emissions Reduction Rebate Program The NH Department of Environmental Services is taking applications for diesel vehicle and equipment upgrades, including the switch to alternative fuel systems and idle reduction technologies. [Click here](#) for more information and to apply.

Notice of Intent to Issue Funding Opportunity Announcement "Alternative Fuel Vehicle Deployment Initiatives" (DE-FOA-0000951)

The Office of Energy Efficiency and Renewable Energy's (EERE) Vehicle Technologies Office (VTO) intends to issue a Funding Opportunity Announcement (FOA) entitled "Alternative Fuel and Advanced Vehicle Deployment

Initiatives." This FOA intends to select projects that will create and implement high impact and highly innovative approaches to increase the acceptance and deployment of alternative fuels, within the following areas of interests:

- 1) Alternative Fuel Vehicle Demonstration and Enhanced Driver Experience Project;
- 2) Alternative Fuel Training activities for first responders, public safety officials, and critical service providers;
- 3) Incorporating Alternative Fuels into Emergency Response and Preparedness Operations.

QUESTION OF THE MONTH

Question of the Month: *Why is idle reduction important? What are ways that I can prevent idling, and what are the benefits of doing so?*

Answer: Idling, the time when a vehicle's engine is on but the vehicle is not moving, wastes over 6 billion gallons of fuel each year in the United States according to Argonne National Laboratory (ANL). This adds up to more than \$20 billion annually in fuel costs. For example, heavy-duty trucks frequently idle at rest stops; an estimated 650,000 long-haul trucks use more than 685 million gallons of fuel per year by unnecessary idling. Idle reduction technologies and practices can help lower fuel consumption and fuel costs, protect public health and the environment, and increase U.S. energy security. Reducing idle time can also help reduce engine wear and maintenance costs. Finally, idling for long periods is illegal in many states and jurisdictions.

Idle Reduction Technologies and Practices

Heavy-Duty Vehicles

Truck stop electrification and onboard equipment can help reduce idling at truck stops, roadsides, and delivery sites. It is important to note that the cost-effectiveness of the technologies below depend on the vehicle applications and climates in which they are used as well as the duration of the idling.

- **Truck Stop Electrification** provides power from an external source for important systems such as air conditioning, heating, and appliances without needing to idle the engine during required stops at rest areas.
- **Auxiliary Power Units** are portable units that are mounted to the vehicle, and provide power for

climate control and electrical devices in trucks, locomotives, and marine vehicles without idling the primary vehicle engine.

- **Energy Recovery Systems** use the vehicle's heat-transfer system to keep the truck's heater operating after the engine is turned off, using engine heat that would otherwise dissipate.
- **Automatic Engine Stop-Start Controls** sense the temperature in the sleeper cabin and automatically turn the engine on if the sleeper is too hot or too cold.
- **Cab or Bunk Heaters** supply warm air to the cab or bunk compartment using small diesel heaters. Heaters can be coupled with air conditioners if needed.

School Buses

School bus idling is particularly problematic because of the negative health impacts for children. School bus engines should be turned off while the engine is not needed, such as at loading and unloading areas, and should only be turned back on when the bus is ready to depart. Idle reduction technologies for school buses that operate in cold climates include small **on-board diesel cabin heaters** and **electrical block heaters**, which can provide warming for the passenger compartment and engine.

Light- and Medium-Duty Vehicles

For light- and medium-duty vehicles, the primary idle reduction strategy is to turn the engine off when the vehicle is parked or stopped for long periods of time. Drivers can also reduce petroleum consumption by avoiding the use of a remote vehicle starter and obeying no-idle zones. Fleets may implement policies to set minimum fuel-efficiency targets or require the use of idle reduction practices. In addition, fleet managers can train their drivers on the benefits of reduced idling and how to use idle reduction strategies.

For vehicles that must stop often or for extended periods of time, such as cabs, limousines, and utility trucks, the idle reduction technologies below can be implemented:

- **Air Heaters** operate on engine fuel and are self-contained units that blow hot air directly into the vehicle's interior. These are similar to the heaters for heavy-duty vehicles.
- **Coolant Heaters** use the vehicle's heat-transfer system and are mounted in the engine compartment.

This technology uses the vehicle's fuel to heat the coolant, and then pumps the heated coolant through the engine, radiator, and heater box. By keeping the engine warm, the coolant heater reduces the impact of cold starts. These are similar to the heaters for heavy-duty vehicles.

- **Waste-Heat Recovery Systems** are similar to the energy recovery systems mentioned above for heavy-duty vehicles.
- **Auxiliary Power Systems** are similar to the auxiliary power units mentioned above for heavy-duty vehicles.
- **Automatic Power Management Systems** allow a vehicle driver to turn off the engine and use battery power to run the accessories from the battery. When the power management system senses the battery getting low, it restarts the engine until battery levels regenerate.
- **Hybridization** enables vehicles requiring power take-off equipment to perform work with the main engine off.

Idling Regulations

There are many state and local laws and incentives in place to reduce idling in specific jurisdictions. For information on current idling reduction incentives and regulations, see the Clean Cities IdleBase

(<http://cleancities.energy.gov/idlebase>) tool and the Alternative Fuels Data Center (AFDC) Laws and Incentives (<http://www.afdc.energy.gov/laws/>) database. While most current laws apply to diesel vehicles, increasingly laws are beginning to address gasoline vehicles as well.

Idle Reduction Tools

IdleBox Toolkit

The IdleBox toolkit

(<http://www1.eere.energy.gov/cleancities/toolbox/idlebox.html>) includes resources such as print products, templates, presentations, and information resources that can assist in creating idle reduction projects for medium- and heavy-duty fleets. IdleBox can also be used to educate policymakers, fleet managers, drivers, and others about the benefits of idle reduction.

Idle Reduction Worksheets

ANL has light- and heavy-duty idle reduction worksheets for drivers and fleet managers on their Idle Reduction Tools and Outreach Materials

(http://www.transportation.anl.gov/engines/idling_tools.ht

[ml](#)) page. The worksheets can help calculate the cost of avoidable idling, as well as potential savings from reducing idling time by implementing technologies and practices.

Additional Resources

For additional information about idling and idle reduction, please see the following resources:

- AFDC Idle Reduction Basics
(http://www.afdc.energy.gov/conserve/idle_reduction_basics.html)
- Petroleum Reduction Planning Tool
(<http://www.afdc.energy.gov/prep/>)
 - The Petroleum Reduction Planning Tool can help create a plan for your fleet to reduce petroleum consumption and emissions, and includes reducing idling as one of the strategies. See the AFDC Tools database (<http://www.afdc.energy.gov/tools>) for additional resources.
- ANL Reducing Vehicle Idling
(<http://www.transportation.anl.gov/engines/idling.html>)
- U.S. Environmental Protection Agency (EPA) SmartWay Program
(<http://www.epa.gov/smartway/>) and Clean School Bus Program
(<http://www.epa.gov/cleanschoolbus/csb-overview.htm>)
 - These national partnerships aim to reduce emissions from the freight industry and diesel school buses through idle reduction and other strategies.

Clean Cities Technical Response Service Team
technicalresponse@icfi.com
800-254-6735

Visit the New Hampshire Department of Environmental Services' [Idle Reduction webpage](#) for tips and resources!

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